## (19) World Intellectual Property Organization

International Bureau



## 

(43) International Publication Date 7 July 2005 (07.07.2005)

**PCT** 

## (10) International Publication Number WO 2005/061484 A1

(51) International Patent Classification<sup>7</sup>: C07D 401/06, 405/06, 409/06, 417/06, 413/12, 491/056, 405/12, A61K 31/4725, 31/4741, A61P 25/04, 25/22

(21) International Application Number:

PCT/SE2004/001939

(22) International Filing Date:

20 December 2004 (20.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0303542-5

22 December 2003 (22.12.2003) SE

(71) Applicant (for all designated States except US): AS-TRAZENECA AB [SE/SE]; S-151 85 Södertälje (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RIPPER, Justin [AU/AU]; Natural Product Discovery, Don Young Road, Mt Gravatt Research Park, Brisbane, Queensland 4111 (AU). JANSSEN, Christian [DE/SG]; MerLion Pharmaceuticals Pte Ltd, 1 Science Park Road, #05-01 The Capricorn, Singapore Science Park II, Singapore 117528 (SG). JENKINS, Ian [AU/AU]; Natural Product Discovery, Don Young Road, Mt Gravatt Research Park, Brisbane, Queensland 4111 (AU). LE, Phuc Van [AU/AU]; Natural Product Discovery, Don Young Road, Mt Gravatt Research Park, Brisbane, Queensland 4111 (AU). QUINN, Ron [AU/AU]; Natural Product Discovery, Don Young Road,

MT Gravatt Research Park, Brisbane, Queensland 4111 (AU).

(74) Agent: ASTRAZENECA; Global Intellectual Property, S-151 85 Södertälje (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

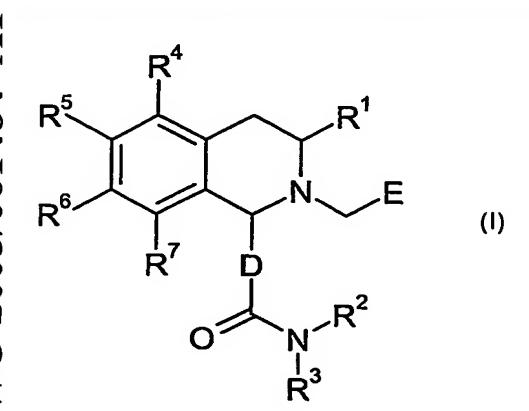
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 1,2,3,4-TETRAHYDROISOQUINOLINE DERIVATIVES, PREPARATIONS THEREOF AND USES THEREOF



(57) Abstract: Compounds of general formula (I) wherein D, E, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup> and R<sup>7</sup> are as defined in the specification, as well as salts, enantiomers thereof and pharmaceutical compositions including the compounds are prepared. They are useful in therapy, in particular in the management of pain.

WO 2005/061484 A1